

### ABSTRACT

5 A burner for use in the manufacture of quartz glass is  
provided, which comprises a triple-tube assembly of a center  
tube for feeding a silane or siloxane compound, an  
intermediate tube for feeding oxygen, and an outer tube for  
feeding hydrogen, a first tubular shell surrounding the  
triple-tube assembly for feeding hydrogen, a plurality of  
10 first nozzles disposed within the first tubular shell for  
feeding oxygen, a second tubular shell surrounding the first  
tubular shell for feeding hydrogen, and a plurality of second  
nozzles disposed within the second tubular shell for feeding  
oxygen. Synthetic quartz glass ingots having high optical  
15 homogeneity are produced.